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TITLE: ELECTROSTRICTIVE EFFECT ELEMENT
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INVENTOR-INFORMATION:

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NAME	COUNTRY
NEC CORP	N/A

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ABSTRACT:

PURPOSE: To reduce spaces among internal electrodes to a fine value, and to enable driving at low voltage by alternately laminating electrostrictive material layers and internal electrode layers, forming these layers to a trapezoid shape with a parallel surface, insulating the internal electrode layers exposed to a nonparallel trapezoid surface at every other one and applying external electrodes along the internal electrodes exposed at every other one.

CONSTITUTION: An extremely small quantity of an organic binder is added to the baking material of an electrostrictive material mainly comprising magnesium lead niobate and lead titanate, and green sheets 21, 22, etc. consisting of the

electrostrictive material are manufactured by using a casting film forming device. Internal electrodes 23, 24, etc. composed of Pt are printed on one surfaces of these green sheets, and several hundred of these sheets are superposed, hot-pressed, contact-bonded and unified. The unified sheets are cut to trapezoid shapes with parallel surfaces, the internal electrodes exposed to nonparallel trapezoid surfaces are coated with glass films 27, 28, etc. at every other one while being alternated on mutually opposite trapezoid surfaces, external electrodes 29 are applied on trapezoid surfaces along the exposed internal electrodes, and external connecting terminals 32, 33 are fitted positioned at trapezoid top sections.

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